

Post-lab for Experiment 2

Name:

Date:

Lab day:

1. Solid unknown number:
2. Draw the structure of solid unknown.

3. Actual m.p.:
Lit. m.p.:
Source:
4. Draw the structure of your unknown, and label the protons. Construct a table of the ^1H NMR peaks below it. For each peak, give the chemical shift, integration, multiplicity, and peak assignment.

7. Liquid unknown number:
8. Draw the structure of liquid unknown.

9. Actual m.p.:
Lit. m.p.:
Source:
10. Draw the structure of your unknown, and label the protons. Construct a table of the ^1H NMR peaks below it. For each peak, give the chemical shift, integration, multiplicity, and peak assignment.

11. Draw the structure of your unknown, and label the carbons. Construct a table of the ^{13}C NMR peaks below it. For each peak, give the chemical shift and peak assignment.

12. List the important IR peaks, and assign the bond vibrations

Attach the ^1H and ^{13}C NMR spectra, the IR spectra, and a copy of your notebook